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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,708	08/12/2003	Christine K. Shewmaker	38-77(52794)	1707
46795	7590	12/04/2006	EXAMINER	
FULBRIGHT & JAWORSKI, LLP 600 CONGRESS AVENUE, SUITE 2400 AUSTIN, TX 78745			MCELWAIN, ELIZABETH F	
		ART UNIT	PAPER NUMBER	
		1638		

DATE MAILED: 12/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/604,708	SHEWMAKER ET AL.	
	Examiner	Art Unit	
	Elizabeth F. McElwain	1638	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 August 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) 11-20 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-10 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 9/22/06.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I, claims 1-10, SEQ ID NO: 7 in the reply filed on August 23, 2006 is acknowledged. Claims 11-20 are withdrawn from consideration.

Specification

2. A substitute specification including the claims is required pursuant to 37 CFR 1.125(a) because the originally filed specification has an unacceptably large type font making both the specification and claims extremely hard to read. A substitute specification is required that complies with the suggested font, font size and line spacing set forth in 37 CFR 1.52. Use of Courier, Arial or Times New Roman in a font size of 12, and line spacing of 1 ½ or double spaced is requested.

A substitute specification must not contain new matter. The substitute specification must be submitted with markings showing all the changes relative to the immediate prior version of the specification of record. The text of any added subject matter must be shown by underlining the added text. The text of any deleted matter must be shown by strike-through except that double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive characters. The text of any deleted subject matter must be shown by being placed within double brackets if strike-through cannot be easily perceived. An accompanying clean version (without markings) and a statement that the substitute specification

contains no new matter must also be supplied. Numbering the paragraphs of the specification of record is not considered a change that must be shown.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

5. Claims 1-10 are indefinite in that the recitation of “increasing total oil” is a relative term. However, it is not stated what the increase would be relative to.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1 and 4-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Lightner et al (US Patent 6,372,965 in IDS).

8. The claims are drawn to a method of increasing oil level in a plant, such as canola, by transforming the plant with a construct comprising a seed specific promoter, such as a napin promoter operably linked to a nucleic acid sequence that is capable of modulating FAD2 mRNA

or FAD2 protein, wherein oleic acid is increased and linoleic acid is decreased and protein level is unchanged.

9. Lightner et al teach a method of increasing oil level in a plant, such as canola, by transforming the plant with a construct comprising a seed specific promoter, such as a napin promoter operably linked to a nucleic acid sequence that is capable of modulating FAD2 mRNA or FAD2 protein, wherein oleic acid is increased and linoleic acid is decreased (see Example 7, for example), and wherein the resultant protein level would be inherent in the same method.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

12. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lightner et al (US Patent 6,372,965 in IDS).

13. The claims are drawn to a method of increasing oil level in a plant, such as canola, arabidopsis and corn, by transforming the plant with a construct comprising a seed specific promoter, such as a napin promoter operably linked to a nucleic acid sequence that is capable of modulating FAD2 mRNA or FAD2 protein, wherein oleic acid is increased and linoleic acid is decreased and protein level is unchanged.

14. Lightner et al teach a method of increasing oil level in a plant, such as canola, by transforming the plant with a construct comprising a seed specific promoter, such as a napin promoter operably linked to a nucleic acid sequence that is capable of modulating FAD2 mRNA or FAD2 protein, wherein oleic acid is increased and linoleic acid is decreased (see Example 7, for example), and wherein the resultant protein level would be inherent in the same method. In addition, Lightner et al teach that Arabidopsis and corn would be plants that are desirable to use in this method (the first paragraph of the Summary of Invention).

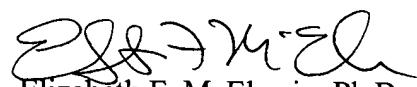
15. Given the recognition of Lightner et al of the desirability of transforming a plant with a nucleic acid that is capable of modulating FAD2 mRNA or protein for the purpose of increasing oil content and modifying oil composition, it would have been obvious to use the constructs and methods taught by Lightner et al to transform other plant species that Lightner et al disclose as embodiments of their invention, such as Arabidopsis and corn to produce plants having increased oil content and modified oil composition. Thus the claimed invention would have been *prima facie* obvious as a whole to one of ordinary skill in the art at the time the invention was made, especially in the absence of evidence to the contrary.

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth F. McElwain whose telephone number is (571) 272-0802. The examiner can normally be reached on increased flex time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Elizabeth F. McElwain, Ph.D.
Primary Examiner
Art Unit 1638

EFM